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ABSTRACT

This demonstration booklet illustrates the kind of exercises, test questions, and tasks used in the 2003 assessment of student achievement in reading and mathematics by the National Assessment of Educational Progress (NAEP). Each student will be asked to complete the background section and the cognitive sections for one subject, and the assessment will require 90 minutes of a student's time. The booklet for Grade 12 is divided into four sections: Part One contains the descriptions of each assessment, followed by the booklet directions and subject-specific samples of reading and mathematics questions; Part Two contains the general background questionnaire that students will be asked to answer; Part Three contains the background questionnaires that accompany each subject; and Part Four (located on the back cover) presents general information about the NAEP program. (PM)

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ED 473 489

NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS (NAEP)

DEMONSTRATION BOOKLET GRADE 12

READING AND MATHEMATICS

2003

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
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The Nation's Report Card NAEP

CS 511 679

Admin Schedule Line #_____

Demonstration Booklet
2003 — Grade 12
Reading and Mathematics

The Nation's Report Card NAEP

School and Teacher Information

SCHOOL # | | | | | | | | TEACHER # | |

TOTAL TIME for ACCOMMODATION | | |

ADMIN CODE | |

012 – 345678 – 9

DO NOT USE

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

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NAEP 2003 ASSESSMENT
NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS
READING AND MATHEMATICS
TWELFTH GRADE

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ABOUT THIS DEMONSTRATION BOOKLET

On behalf of the National Assessment of Educational Progress (NAEP) project team, I want to thank you and other members of your school system for agreeing to participate in the NAEP assessment. Your participation is essential and highly valued. The data that NAEP provides about student achievement are widely used by parents, educators, and researchers throughout the nation. Your assistance contributes to our success in measuring what students know and can do.

NAEP is the only nationally representative and continuing assessment of what America's students know and can do in various subject areas. Since 1969, national assessments have been conducted periodically in reading, mathematics, science, writing, U.S. history, civics, geography, and the arts. Since 1990, NAEP assessments have also been conducted on the state level. As provided for by law, beginning in 2003 NAEP will assess fourth- and eighth-grade students in reading and mathematics biennially.

This demonstration booklet illustrates the kinds of exercises, test questions, and tasks used in the 2003 assessment of student achievement in reading and mathematics. Each participating student will be asked to complete the subject matter sections and a background section for one subject test. The length of the assessment will require about 90 minutes of a student's time.

This booklet is divided into four parts. Part one contains descriptions of each assessment, followed by the booklet directions and subject-specific samples of reading and mathematics questions that are representative of those in the assessment. The second part has the general background questionnaire that twelfth graders will be asked to answer and the third part contains the background questionnaires that accompany each subject. NAEP asks students questions about their school experience and what teachers teach in the classroom to help guide decisions regarding education made by policymakers using NAEP data and results. Students' answers to all questions are confidential, and students' names are removed from all completed assessment materials.

The sample questions included in this booklet are intended to convey the kinds of questions and question formats that comprise the 2003 assessment. The actual questions in the assessment must be safeguarded to maintain the integrity of the assessment and resulting data. Released questions from previous NAEP assessments are available to be viewed and downloaded from the National Center for Education Statistics (NCES) Web site at http://nces.ed.gov/nationsreportcard. However, members of the public may request access to secure NAEP questions. More information on the procedures to follow to make such a request is included in part four of this booklet.

The final part of the booklet, located on the back cover, presents general information about the NAEP program.

If you have any questions or comments regarding the NAEP program or this booklet, please refer to http://nces.ed.gov/nationsreportcard or call Sherran Osborne of NCES at (202) 502–7420.

Peggy G. Carr, Associate Commissioner
Education Assessment
National Center for Education Statistics

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THE READING ASSESSMENT

The NAEP reading assessment measures students' ability to understand, to interpret, and to think critically about different types of texts. In responding to stories, articles, and documents, students are asked to read *for literary experience, to gain information,* and *to perform a task.* The assessment comprises reading materials selected from publications and other resources typically available to students in and out of school.

Across the three purposes for reading, students are asked to demonstrate their understanding by responding to comprehension questions that reflect four different aspects of reading. These aspects characterize the ways readers respond to text while developing understanding. *Forming a General Understanding* questions ask students to consider the text as a whole. *Developing Interpretation* questions ask students to discern connections and relationships within the text. *Making Reader/Text Connections* questions ask students to connect information from the text with prior knowledge and experience. *Examining Content and Structure* questions ask students to critically evaluate the content, organization, and form of the text.

The NAEP reading assessment contains multiple-choice questions as well as short and extended constructed-response questions. Students spend approximately 50 to 60 percent of their assessment time providing written answers to the constructed-response questions.

Each student who participates in the assessment will receive one assessment booklet. At grade 12, the booklets will contain either two 25-minute reading sections or one 50-minute section made up of reading materials and questions, as well as a short questionnaire designed to yield information about the student and school practices, such as the amount of time spent on homework or the types of instruction encountered in the classroom.

NAEP Reading Framework

Distribution of Percentage of Assessment Time Across Purposes for Reading and Grades

	Grade 4	Grade 8	Grade 12
Literary	55%	40%	35%
Informative	45%	40%	45%
Task	**	20%	20%

**Not assessed at grade 4.

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READING BOOKLET DIRECTIONS

In each of the next two sections, you will have 25 minutes to read a story, an article, or a document and answer questions about it. You should think carefully about your answers, and you should use the entire 25 minutes to complete each section.

You will be asked to respond to three different types of questions. Some of the questions will require you to choose the best answer and fill in the oval for that answer in your booklet.

For other questions, you will be asked to write short answers on the blank lines provided in your booklet. Here is an example of a question that requires you to provide a short answer.

Example 1

Give an example from the article that shows Mandy was not a quitter.

One example is that Mandy's mother didn't want her to umpire in public, but Mandy persuaded her mother to let her.

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Also, you may be asked to answer other questions by writing longer, more detailed responses on a full page of blank lines. For example, here is a question that requires you to provide a longer answer.

Example 2

Explain how Mandy's mother and brother helped Mandy to become the first woman umpire.

Mandy's mother helped her by agreeing to let her umpire at a public ball game. Mandy did so well that the team offered her a job as umpire. Mandy's brother helped her by letting her play baseball with him. He also helped Mandy to persuade their mother to let her play in public.

When you are asked to write your response be sure that your handwriting is clear. Think carefully about each question and make your answers as complete as possible, using as many lines as you need.

You may go back to the story, article, or document when answering any of the questions. If you finish before time is called, be sure to read your work again and change anything that you think will make your answers better.

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READING SAMPLE QUESTIONS

(More sample assessment questions are available on NAEP's Web site at http://www.nces.ed.gov/nationsreportcard/itmrls/)

In this section, you will have 25 minutes to examine an income tax form and answer 14 questions about it. Mark your answers in your booklet. Fill in only one oval for each question or write your answer on the lines. Please think carefully about your answers. When you are writing your answers, be sure that your handwriting is clear.

Do not go past the STOP sign at the end of the section. If you finish before time is called, you should go over your work again and change anything that you think will make your answers better.

PLEASE TURN THE PAGE AND BEGIN READING NOW.

Sample handout that accompanied NAEP student t booklet, grade 12, reading assessment

Department of the Treasury - Internal Revenue Service

Form **1040EZ**

Income Tax Return for Single Filers With No Dependents (5)

OMB No. 1545-0675

Name & address

Use the IRS mailing label. If you don't have one, please print.

LABEL HERE

Print your name above (first, initial, last)

Home address (number and street). (If you have a P.O. box, see back.) Apt. no.

City, town or post office, state, and ZIP code

Please print your numbers like this: 9 8 7 6 5 4 3 2 1 0

Your social security number

Instructions are on the back. Also, see the Form 1040A/ 1040EZ booklet, especially the checklist on page 14.

Presidential Election Campaign Fund
Do you want $1 to go to this fund? *Note: Checking "Yes" will not change your tax or reduce your refund.* ▶ Yes ☐ No ☐

Dollars Cents

Report your income

1 Total wages, salaries, and tips. This should be shown in Box 10 of your W-2 form(s). (Attach your W-2 form(s).) 1

2 Taxable interest income of $400 or less. If the total is more than $400, you cannot use Form 1040EZ. 2

3 Add line 1 and line 2. This is your **adjusted gross income.** 3

Note: You must check Yes or No.

4 Can your parents (or someone else) claim you on their return?
☐ **Yes.** Do worksheet on back; enter amount from line E here.
☑ **No.** Enter 5,100. This is the total of your standard deduction and personal exemption. 4

5 Subtract line 4 from line 3. If line 4 is larger than line 3, enter 0. This is your **taxable income.** 5

Figure your tax

6 Enter your Federal income tax withheld from Box 9 of your W-2 form(s). 6

7 **Tax.** Use the amount on **line 5** to look up your tax in the tax table. Use the **single** column in the table. Enter the tax from the table on this line. 7

Refund or amount you owe

8 If line 6 is larger than line 7, subtract line 7 from line 6. This is your **refund.** 8

9 If line 7 is larger than line 6, subtract line 6 from line 7. This is the **amount you owe.** Attach check or money order for the full amount, payable to "Internal Revenue Service." 9

Attach tax payment here.

Sign your return

(Keep a copy of this form for your records.)

I have read this return. Under penalties of perjury, I declare that to the best of my knowledge and belief, the return is true, correct, and complete.

Your signature Date

X

For IRS Use Only—Please do not write in boxes below.

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For Privacy Act and Paperwork Reduction Act Notice, see page 3 in the booklet. Form 1040EZ

Use this form if:

- Your filing status is single.
- You do not claim any dependents.
- You were under 65 and not blind.
- Your taxable income (line 5) is less than $50,000.
- You had **only** wages, salaries, tips, and taxable scholarships or fellowships, and your taxable interest income was $400 or less. ***Caution:*** *If you earned tips (including allocated tips) that are not included in Box 14 of your W-2, you may not be able to use Form 1040EZ. See page 23 in the booklet.*

If you are not sure about your filing status or dependents, see pages 15 through 20 in the booklet.

If you can't use this form, see pages 11 through 13 in the booklet for which form to use.

Completing your return

Please print your numbers inside the boxes. Do not type your numbers. Do not use dollar signs. You may round off cents to whole dollars. To do so, drop amounts under 50 cents and increase amounts that are 50 cents or more. For example, $129.49 becomes $129 and $129.50 becomes $130. If you round off, do so for all amounts. But if you have to add two or more amounts to figure the amount to enter on a line, include cents when adding and round off only the total.

Name & address

Please use the mailing label we sent you. It can help speed your refund. After you complete your return, put the label in the name and address area. Cross out any errors. Print the right information on the label (including apartment number). **If you don't have a label**, print your name, address, and social security number. If your post office does not deliver mail to your home and you have a P.O. box, show your P.O. box number instead of your home address.

Presidential campaign fund

Congress set up this fund to help pay for Presidential election costs. If you want $1 of your tax to go to this fund, check the "Yes" box. If you check "Yes," your tax or refund will not change.

Report your income

Line 1. If you don't get your W-2 by February 15, contact your local IRS office. You must still report your wages, salaries, and tips even if you don't get a W-2 from your employer. Students, if you received a scholarship or fellowship, see page 23 in the booklet.

Line 2. Banks, savings and loans, credit unions, etc., should send you a Form 1099-INT showing the amount of taxable interest paid to you. You must report all your taxable interest even if you don't get a Form 1099-INT. If you had tax-exempt interest, such as on municipal bonds, write "TEI" in the space to the left of line 2. After "TEI," show the amount of your tax-exempt interest. **Do not** add tax-exempt interest in the total on line 2.

Line 4. If you checked "Yes" because someone can claim you as a dependent, fill in this worksheet to figure the amount to enter on line 4.

Standard deduction worksheet for dependents who checked "Yes" on line 4

A.	Enter the amount from line 1 on front.	A. _____
B.	Minimum amount.	B. 500.00
C.	**Compare** the amounts on lines A and B above. Enter the LARGER of the two amounts here.	C. _____
D.	Maximum amount.	D. 3,100.00
E.	**Compare** the amounts on lines C and D above. Enter the SMALLER of the two amounts here and on line 4 on front.	E. _____

If you checked "No" because no one can claim you as a dependent, enter 5,100 on line 4. This is the total of your standard deduction (3,100) and personal exemption (2,000).

Figure your tax

Line 6. If you received a Form 1099-INT showing income tax withheld (backup withholding), include the amount in the total on line 6. To the left of line 6, write "Form 1099." If you had two or more employers and had total wages of over $48,000, see page 35 in the booklet.

If you want IRS to figure your tax, skip lines 7 through 9. Then sign and date your return. If you paid too much tax, we will send you a refund. If you didn't pay enough tax, we will send you a bill. We won't charge you interest or a late payment penalty if you pay within 30 days of the notice date or by April 16, whichever is later. If you want to figure your own tax, complete the rest of your return.

Amount you owe

Line 9. If you owe tax, attach your check or money order for the full amount. Write your social security number, daytime phone number, and "Form 1040EZ" on your payment.

Sign your return

You must sign and date your return. If you pay someone to prepare your return, that person must sign it and show other information. See page 40 in the booklet.

Mailing your return

Mail your return by **April 16.** Use the envelope that came with your booklet. If you don't have that envelope, see page 49 in the booklet for the address.

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Section 4—Tax Table

For persons with taxable incomes of less than $50,000

Example: Mr. and Mrs. Green are filing a joint return. Their taxable income on line 19 of Form 1040A is $23,250. First, they find the $23,250-23,300 income line. Next, they find the column for married filing jointly and read down the column. The amount shown where the income line and filing status column meet is $3,491. This is the tax amount they must write on line 20 of Form 1040A.

At least	But less than	Single (and 1040EZ filers)	Married filing jointly *	Married filing separately	Head of a household
		Your tax is—			
23,200	23,250	4,092	3,484	4,491	3,484
23,250	23,300	4,106	3,491	4,505	3,491
23,300	23,350	4,120	3,499	4,519	3,499
23,350	23,400	4,134	3,506	4,533	3,506

If 1040A, line 19, OR 1040EZ, line 5 is—		And you are—			
At least	But less than	Single (and 1040EZ filers)	Married filing jointly *	Married filing separately	Head of a household
		Your tax is—			
$0	$5	$0	$0	$0	$0
5	15	2	2	2	2
15	25	3	3	3	3
25	50	6	6	6	6
50	75	9	9	9	9
75	100	13	13	13	13
100	125	17	17	17	17
125	150	21	21	21	21
150	175	24	24	24	24
175	200	28	28	28	28
200	225	32	32	32	32
225	250	36	36	36	36
250	275	39	39	39	39
275	300	43	43	43	43
300	325	47	47	47	47
325	350	51	51	51	51
350	375	54	54	54	54
375	400	58	58	58	58
400	425	62	62	62	62
425	450	66	66	66	66
450	475	69	69	69	69
475	500	73	73	73	73
500	525	77	77	77	77
525	550	81	81	81	81
550	575	84	84	84	84
575	600	88	88	88	88
600	625	92	92	92	92
625	650	96	96	96	96
650	675	99	99	99	99
675	700	103	103	103	103
700	725	107	107	107	107
725	750	111	111	111	111
750	775	114	114	114	114
775	800	118	118	118	118
800	825	122	122	122	122
825	850	126	126	126	126
850	875	129	129	129	129
875	900	133	133	133	133
900	925	137	137	137	137
925	950	141	141	141	141
950	975	144	144	144	144
975	1,000	148	148	148	148
1,000					
1,000	1,025	152	152	152	152
1,025	1,050	156	156	156	156
1,050	1,075	159	159	159	159
1,075	1,100	163	163	163	163
1,100	1,125	167	167	167	167
1,125	1,150	171	171	171	171
1,150	1,175	174	174	174	174
1,175	1,200	178	178	178	178
1,200	1,225	182	182	182	182
1,225	1,250	186	186	186	186
1,250	1,275	189	189	189	189
1,275	1,300	193	193	193	193
1,300	1,325	197	197	197	197
1,325	1,350	201	201	201	201
1,350	1,375	204	204	204	204
1,375	1,400	208	208	208	208
1,400	1,425	212	212	212	212
1,425	1,450	216	216	216	216
1,450	1,475	219	219	219	219
1,475	1,500	223	223	223	223
1,500	1,525	227	227	227	227
1,525	1,550	231	231	231	231
1,550	1,575	234	234	234	234
1,575	1,600	238	238	238	238
1,600	1,625	242	242	242	242
1,625	1,650	246	246	246	246
1,650	1,675	249	249	249	249
1,675	1,700	253	253	253	253
1,700	1,725	257	257	257	257
1,725	1,750	261	261	261	261
1,750	1,775	264	264	264	264
1,775	1,800	268	268	268	268
1,800	1,825	272	272	272	272
1,825	1,850	276	276	276	276
1,850	1,875	279	279	279	279
1,875	1,900	283	283	283	283
1,900	1,925	287	287	287	287
1,925	1,950	291	291	291	291
1,950	1,975	294	294	294	294
1,975	2,000	298	298	298	298
2,000					
2,000	2,025	302	302	302	302
2,025	2,050	306	306	306	306
2,050	2,075	309	309	309	309
2,075	2,100	313	313	313	313
2,100	2,125	317	317	317	317
2,125	2,150	321	321	321	321
2,150	2,175	324	324	324	324
2,175	2,200	328	328	328	328
2,200	2,225	332	332	332	332
2,225	2,250	336	336	336	336
2,250	2,275	339	339	339	339
2,275	2,300	343	343	343	343
2,300	2,325	347	347	347	347
2,325	2,350	351	351	351	351
2,350	2,375	354	354	354	354
2,375	2,400	358	358	358	358
2,400	2,425	362	362	362	362
2,425	2,450	366	366	366	366
2,450	2,475	369	369	369	369
2,475	2,500	373	373	373	373
2,500	2,525	377	377	377	377
2,525	2,550	381	381	381	381
2,550	2,575	384	384	384	384
2,575	2,600	388	388	388	388
2,600	2,625	392	392	392	392
2,625	2,650	396	396	396	396
2,650	2,675	399	399	399	399
2,675	2,700	403	403	403	403
2,700	2,725	407	407	407	407
2,725	2,750	411	411	411	411
2,750	2,775	414	414	414	414
2,775	2,800	418	418	418	418
2,800	2,825	422	422	422	422
2,825	2,850	426	426	426	426
2,850	2,875	429	429	429	429
2,875	2,900	433	433	433	433
2,900	2,925	437	437	437	437
2,925	2,950	441	441	441	441
2,950	2,975	444	444	444	444
2,975	3,000	448	448	448	448
3,000					
3,000	3,050	454	454	454	454
3,050	3,100	461	461	461	461
3,100	3,150	469	469	469	469
3,150	3,200	476	476	476	476
3,200	3,250	484	484	484	484
3,250	3,300	491	491	491	491
3,300	3,350	499	499	499	499
3,350	3,400	506	506	506	506
3,400	3,450	514	514	514	514
3,450	3,500	521	521	521	521
3,500	3,550	529	529	529	529
3,550	3,600	536	536	536	536
3,600	3,650	544	544	544	544
3,650	3,700	551	551	551	551
3,700	3,750	559	559	559	559
3,750	3,800	566	566	566	566
3,800	3,850	574	574	574	574
3,850	3,900	581	581	581	581
3,900	3,950	589	589	589	589
3,950	4,000	596	596	596	596
4,000					
4,000	4,050	604	604	604	604
4,050	4,100	611	611	611	611
4,100	4,150	619	619	619	619
4,150	4,200	626	626	626	626
4,200	4,250	634	634	634	634
4,250	4,300	641	641	641	641
4,300	4,350	649	649	649	649
4,350	4,400	656	656	656	656
4,400	4,450	664	664	664	664
4,450	4,500	671	671	671	671
4,500	4,550	679	679	679	679
4,550	4,600	686	686	686	686
4,600	4,650	694	694	694	694
4,650	4,700	701	701	701	701
4,700	4,750	709	709	709	709
4,750	4,800	716	716	716	716
4,800	4,850	724	724	724	724
4,850	4,900	731	731	731	731
4,900	4,950	739	739	739	739
4,950	5,000	746	746	746	746

* This column must also be used by a qualifying widow(er).

Continued on next page

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Tax Table—*Continued*

If 1040A, line 19, OR 1040EZ, line 5 is—		And you are—				If 1040A, line 19, OR 1040EZ, line 5 is—		And you are—				If 1040A, line 19, OR 1040EZ, line 5 is—		And you are—			
At least	But less than	Single (and 1040EZ filers)	Married filing jointly *	Married filing separately	Head of a household	At least	But less than	Single (and 1040EZ filers)	Married filing jointly *	Married filing separately	Head of a household	At least	But less than	Single (and 1040EZ filers)	Married filing jointly *	Married filing separately	Head of a household
		Your tax is—						Your tax is—						Your tax is—			
5,000						**8,000**						**11,000**					
5,000	5,050	754	754	754	754	8,000	8,050	1,204	1,204	1,204	1,204	11,000	11,050	1,654	1,654	1,654	1,654
5,050	5,100	761	761	761	761	8,050	8,100	1,211	1,211	1,211	1,211	11,050	11,100	1,661	1,661	1,661	1,661
5,100	5,150	769	769	769	769	8,100	8,150	1,219	1,219	1,219	1,219	11,100	11,150	1,669	1,669	1,669	1,669
5,150	5,200	776	776	776	776	8,150	8,200	1,226	1,226	1,226	1,226	11,150	11,200	1,676	1,676	1,676	1,676
5,200	5,250	784	784	784	784	8,200	8,250	1,234	1,234	1,234	1,234	11,200	11,250	1,684	1,684	1,684	1,684
5,250	5,300	791	791	791	791	8,250	8,300	1,241	1,241	1,241	1,241	11,250	11,300	1,691	1,691	1,691	1,691
5,300	5,350	799	799	799	799	8,300	8,350	1,249	1,249	1,249	1,249	11,300	11,350	1,699	1,699	1,699	1,699
5,350	5,400	806	806	806	806	8,350	8,400	1,256	1,256	1,256	1,256	11,350	11,400	1,706	1,706	1,706	1,706
5,400	5,450	814	814	814	814	8,400	8,450	1,264	1,264	1,264	1,264	11,400	11,450	1,714	1,714	1,714	1,714
5,450	5,500	821	821	821	821	8,450	8,500	1,271	1,271	1,271	1,271	11,450	11,500	1,721	1,721	1,721	1,721
5,500	5,550	829	829	829	829	8,500	8,550	1,279	1,279	1,279	1,279	11,500	11,550	1,729	1,729	1,729	1,729
5,550	5,600	836	836	836	836	8,550	8,600	1,286	1,286	1,286	1,286	11,550	11,600	1,736	1,736	1,736	1,736
5,600	5,650	844	844	844	844	8,600	8,650	1,294	1,294	1,294	1,294	11,600	11,650	1,744	1,744	1,744	1,744
5,650	5,700	851	851	851	851	8,650	8,700	1,301	1,301	1,301	1,301	11,650	11,700	1,751	1,751	1,751	1,751
5,700	5,750	859	859	859	859	8,700	8,750	1,309	1,309	1,309	1,309	11,700	11,750	1,759	1,759	1,759	1,759
5,750	5,800	866	866	866	866	8,750	8,800	1,316	1,316	1,316	1,316	11,750	11,800	1,766	1,766	1,766	1,766
5,800	5,850	874	874	874	874	8,800	8,850	1,324	1,324	1,324	1,324	11,800	11,850	1,774	1,774	1,774	1,774
5,850	5,900	881	881	881	881	8,850	8,900	1,331	1,331	1,331	1,331	11,850	11,900	1,781	1,781	1,781	1,781
5,900	5,950	889	889	889	889	8,900	8,950	1,339	1,339	1,339	1,339	11,900	11,950	1,789	1,789	1,789	1,789
5,950	6,000	896	896	896	896	8,950	9,000	1,346	1,346	1,346	1,346	11,950	12,000	1,796	1,796	1,796	1,796
6,000						**9,000**						**12,000**					
6,000	6,050	904	904	904	904	9,000	9,050	1,354	1,354	1,354	1,354	12,000	12,050	1,804	1,804	1,804	1,804
6,050	6,100	911	911	911	911	9,050	9,100	1,361	1,361	1,361	1,361	12,050	12,100	1,811	1,811	1,811	1,811
6,100	6,150	919	919	919	919	9,100	9,150	1,369	1,369	1,369	1,369	12,100	12,150	1,819	1,819	1,819	1,819
6,150	6,200	926	926	926	926	9,150	9,200	1,376	1,376	1,376	1,376	12,150	12,200	1,826	1,826	1,826	1,826
6,200	6,250	934	934	934	934	9,200	9,250	1,384	1,384	1,384	1,384	12,200	12,250	1,834	1,834	1,834	1,834
6,250	6,300	941	941	941	941	9,250	9,300	1,391	1,391	1,391	1,391	12,250	12,300	1,841	1,841	1,841	1,841
6,300	6,350	949	949	949	949	9,300	9,350	1,399	1,399	1,399	1,399	12,300	12,350	1,849	1,849	1,849	1,849
6,350	6,400	956	956	956	956	9,350	9,400	1,406	1,406	1,406	1,406	12,350	12,400	1,856	1,856	1,856	1,856
6,400	6,450	964	964	964	964	9,400	9,450	1,414	1,414	1,414	1,414	12,400	12,450	1,864	1,864	1,864	1,864
6,450	6,500	971	971	971	971	9,450	9,500	1,421	1,421	1,421	1,421	12,450	12,500	1,871	1,871	1,871	1,871
6,500	6,550	979	979	979	979	9,500	9,550	1,429	1,429	1,429	1,429	12,500	12,550	1,879	1,879	1,879	1,879
6,550	6,600	986	986	986	986	9,550	9,600	1,436	1,436	1,436	1,436	12,550	12,600	1,886	1,886	1,886	1,886
6,600	6,650	994	994	994	994	9,600	9,650	1,444	1,444	1,444	1,444	12,600	12,650	1,894	1,894	1,894	1,894
6,650	6,700	1,001	1,001	1,001	1,001	9,650	9,700	1,451	1,451	1,451	1,451	12,650	12,700	1,901	1,901	1,901	1,901
6,700	6,750	1,009	1,009	1,009	1,009	9,700	9,750	1,459	1,459	1,459	1,459	12,700	12,750	1,909	1,909	1,909	1,909
6,750	6,800	1,016	1,016	1,016	1,016	9,750	9,800	1,466	1,466	1,466	1,466	12,750	12,800	1,916	1,916	1,916	1,916
6,800	6,850	1,024	1,024	1,024	1,024	9,800	9,850	1,474	1,474	1,474	1,474	12,800	12,850	1,924	1,924	1,924	1,924
6,850	6,900	1,031	1,031	1,031	1,031	9,850	9,900	1,481	1,481	1,481	1,481	12,850	12,900	1,931	1,931	1,931	1,931
6,900	6,950	1,039	1,039	1,039	1,039	9,900	9,950	1,489	1,489	1,489	1,489	12,900	12,950	1,939	1,939	1,939	1,939
6,950	7,000	1,046	1,046	1,046	1,046	9,950	10,000	1,496	1,496	1,496	1,496	12,950	13,000	1,946	1,946	1,946	1,946
7,000						**10,000**						**13,000**					
7,000	7,050	1,054	1,054	1,054	1,054	10,000	10,050	1,504	1,504	1,504	1,504	13,000	13,050	1,954	1,954	1,954	1,954
7,050	7,100	1,061	1,061	1,061	1,061	10,050	10,100	1,511	1,511	1,511	1,511	13,050	13,100	1,961	1,961	1,961	1,961
7,100	7,150	1,069	1,069	1,069	1,069	10,100	10,150	1,519	1,519	1,519	1,519	13,100	13,150	1,969	1,969	1,969	1,969
7,150	7,200	1,076	1,076	1,076	1,076	10,150	10,200	1,526	1,526	1,526	1,526	13,150	13,200	1,976	1,976	1,976	1,976
7,200	7,250	1,084	1,084	1,084	1,084	10,200	10,250	1,534	1,534	1,534	1,534	13,200	13,250	1,984	1,984	1,984	1,984
7,250	7,300	1,091	1,091	1,091	1,091	10,250	10,300	1,541	1,541	1,541	1,541	13,250	13,300	1,991	1,991	1,991	1,991
7,300	7,350	1,099	1,099	1,099	1,099	10,300	10,350	1,549	1,549	1,549	1,549	13,300	13,350	1,999	1,999	1,999	1,999
7,350	7,400	1,106	1,106	1,106	1,106	10,350	10,400	1,556	1,556	1,556	1,556	13,350	13,400	2,006	2,006	2,006	2,006
7,400	7,450	1,114	1,114	1,114	1,114	10,400	10,450	1,564	1,564	1,564	1,564	13,400	13,450	2,014	2,014	2,014	2,014
7,450	7,500	1,121	1,121	1,121	1,121	10,450	10,500	1,571	1,571	1,571	1,571	13,450	13,500	2,021	2,021	2,021	2,021
7,500	7,550	1,129	1,129	1,129	1,129	10,500	10,550	1,579	1,579	1,579	1,579	13,500	13,550	2,029	2,029	2,029	2,029
7,550	7,600	1,136	1,136	1,136	1,136	10,550	10,600	1,586	1,586	1,586	1,586	13,550	13,600	2,036	2,036	2,036	2,036
7,600	7,650	1,144	1,144	1,144	1,144	10,600	10,650	1,594	1,594	1,594	1,594	13,600	13,650	2,044	2,044	2,044	2,044
7,650	7,700	1,151	1,151	1,151	1,151	10,650	10,700	1,601	1,601	1,601	1,601	13,650	13,700	2,051	2,051	2,051	2,051
7,700	7,750	1,159	1,159	1,159	1,159	10,700	10,750	1,609	1,609	1,609	1,609	13,700	13,750	2,059	2,059	2,059	2,059
7,750	7,800	1,166	1,166	1,166	1,166	10,750	10,800	1,616	1,616	1,616	1,616	13,750	13,800	2,066	2,066	2,066	2,066
7,800	7,850	1,174	1,174	1,174	1,174	10,800	10,850	1,624	1,624	1,624	1,624	13,800	13,850	2,074	2,074	2,074	2,074
7,850	7,900	1,181	1,181	1,181	1,181	10,850	10,900	1,631	1,631	1,631	1,631	13,850	13,900	2,081	2,081	2,081	2,081
7,900	7,950	1,189	1,189	1,189	1,189	10,900	10,950	1,639	1,639	1,639	1,639	13,900	13,950	2,089	2,089	2,089	2,089
7,950	8,000	1,196	1,196	1,196	1,196	10,950	11,000	1,646	1,646	1,646	1,646	13,950	14,000	2,096	2,096	2,096	2,096

* This column must also be used by a qualifying widow(er).

Continued on next page

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1. The purpose of the tax table is to help you determine

   (A) your gross income

   (B) the amount of tax you owe

   (C) your net earnings

   (D) your allowable deductions

2. Name one place where you can find the instructions for completing the 1040EZ tax return.

3. Name two factors that would make you *ineligible* to file a 1040EZ tax return.

4. What should you do if you do not receive a W-2 form from your employer?

5. If you cannot be claimed as someone's dependent, what is the maximum amount you can claim for a personal exemption?

   (A) $5,100

   (B) $3,100

   (C) $2,000

   (D) $500

6. List two mistakes that you could make in completing your tax return that might delay its processing.

7. What should you do if you have tax-exempt interest?

   (A) Ignore the fact that you have the interest and do not report it.

   (B) Obtain a separate interest-exemption tax form.

   (C) Write the amount of interest and the letters TEI to the left of line 2.

   (D) Add the amount of interest to your taxable income total on line 2.

8. Why are the lines on the tax return numbered?

9. In order to find the amount of your taxable income, you must

   (A) multiply the state sales tax by your gross income

   (B) subtract line 4 from line 3 on the tax return

   (C) add line 6 and line 7 on the tax return

   (D) ask your employer for the amount of your adjusted income

10. Give one reason why you would not use the 1040EZ form, even if you were single.

11. If you are claimed on the tax return of someone else, then you are considered to be a

Ⓐ dependent

Ⓑ tax credit

Ⓒ deduction

Ⓓ personal exemption

12. If your income on line 5 of the 1040EZ tax return is $12,550, what is the amount of your tax?

Ⓐ $1,879

Ⓑ $1,886

Ⓒ $3,700

Ⓓ $5,100

13. Why is it important that you file your tax return before April 16?

14. When using the 1040EZ tax return, the amount of income tax owed is determined by your

Ⓐ filing status

Ⓑ level of income

Ⓒ number of deductions

Ⓓ tax-exempt interest

THE MATHEMATICS ASSESSMENT

The NAEP mathematics assessment measures students' ability to solve problems in five mathematics content strands: Number Sense, Properties, and Operations; Measurement; Geometry and Spatial Sense; Data Analysis, Statistics and Probability; and Algebra and Functions. Students are asked questions within each of these five content strands which involve conceptual understanding, procedural knowledge and/or problem solving (mathematical abilities) within a broader context of reasoning, making connections, and communication (mathematical power).

The exercise types include multiple-choice questions, short-answer open-ended questions, and extended open-ended tasks. The extended exercises allow students to communicate their ideas and demonstrate the reasoning they used to solve problems. The short answer and extended response type questions make up more than 50 percent of student assessment time. The assessment also incorporates the use of calculators (four-function at grade 4 and scientific at grades 8 and 12), rulers (at all grades), protractors (at grades 8 and 12), and manipulatives such as spinners and geometric shapes into some parts of the assessment, but not all. Calculator use is permitted on approximately one-third of the test questions. NAEP provides all ancillary materials for students.

Each student who participates in the assessment will receive one test booklet. The assessment booklets will contain two 25-minute sets of test questions, as well as a short questionnaire designed to yield information about the student and school practices, such as the amount of time spent on homework or the types of instruction encountered in the classroom.

NAEP Mathematics Framework
Distribution of Percentage of Assessment Questions
Across Content Strands and Grades

	Grade 4	Grade 8	Grade 12
Number Sense, Properties and Operations	40%	25%	20%
Measurement	20%	15%	15%
Geometry and Spatial Sense	15%	20%	20%
Data Analysis, Statistics, and Probability	10%	15%	20%
Algebra and Functions	15%	25%	25%

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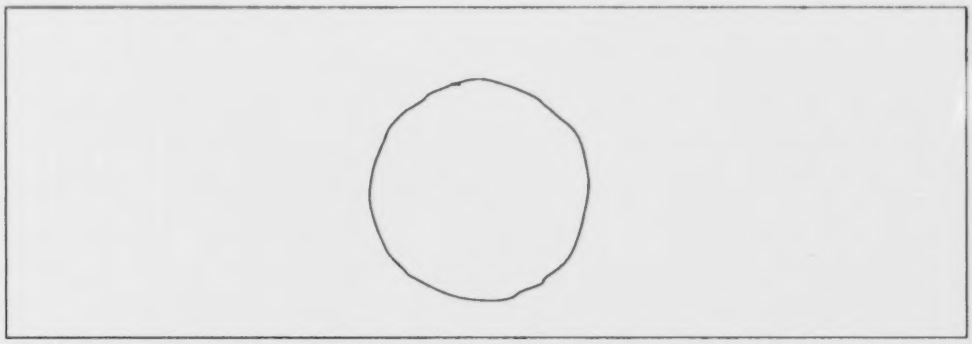
MATHEMATICS BOOKLET DIRECTIONS

This assessment uses many different booklets. Each booklet has different questions. Do not worry if the person next to you is working on questions that do not look like those you are working on.

Read each question carefully and answer it as well as you can. Do not spend too much time on any one question.

For some of the questions you may need to write or draw the answer. You can see how this is done in the example below.



You may be given a calculator to use for at least one part of your booklet. If you are given a calculator, you will have to decide when to use it in each section where its use is permitted. For some questions using the calculator is helpful, but for other questions the calculator may not be helpful. After each question you will be asked to indicate whether you used the calculator.

When you receive the calculator, make sure you know how to use it. There are instructions on the back cover of this booklet to help you. If the calculator does not work or if you do not know how to use it, raise your hand and ask for help.

REMEMBER:

Read each question CAREFULLY.

Fill in only ONE OVAL for each question or write your answer in the space provided.

If you change your answer, ERASE your first answer COMPLETELY.

CHECK OVER your work if you finish a section early.

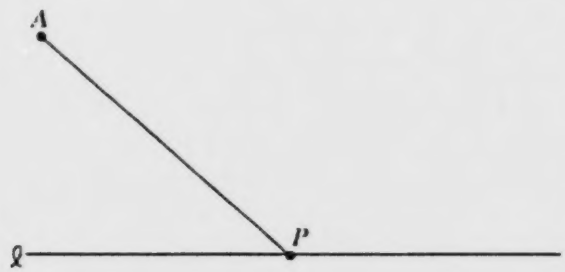
Do not go past the

sign at the end of each section until you are told to do so.

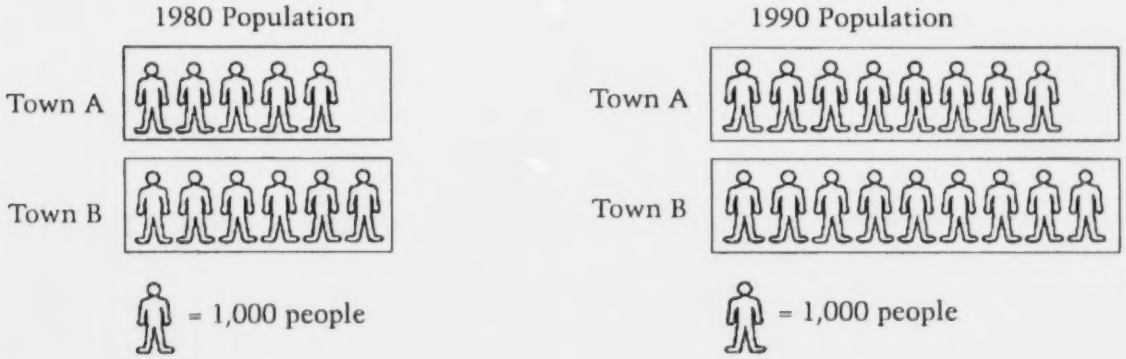
MATHEMATICS SAMPLE QUESTIONS

(More sample assessment questions are available on NAEP's Web site at http://www.nces.ed.gov/nationsreportcard/itmrls/)

1. In the figure below, use the protractor to draw a line m through point P perpendicular to segment AP. In the answer space provided, give the measure of the smaller angle formed by lines ℓ and m.



Answer:



2. In 1980, the populations of Town A and Town B were 5,000 and 6,000, respectively. The 1990 populations of Town A and Town B were 8,000 and 9,000, respectively.

   Brian claims that from 1980 to 1990 the populations of the two towns grew by the same amount. Use mathematics to explain how Brian might have justified his claim.

   Darlene claims that from 1980 to 1990 the population of Town A had grown more. Use mathematics to explain how Darlene might have justified her claim.

HW000863

3. A certain machine produces 300 nails per minute. At this rate, how long will it take the machine to produce enough nails to fill 5 boxes of nails if each box will contain 250 nails?

   (A) 4 min

   (B) 4 min 6 sec

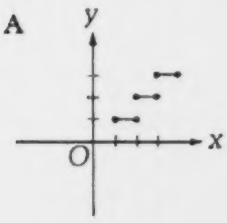
   (C) 4 min 10 sec

   (D) 4 min 50 sec

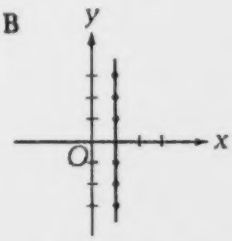
   (E) 5 min

4. Which of the following could be the graph of a function?

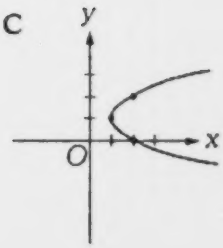
A



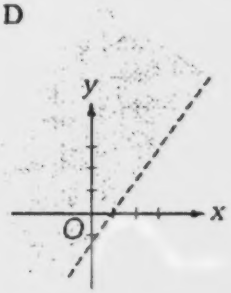
B



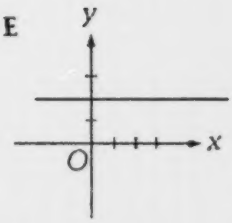
C



D



E



This question requires you to show your work and explain your reasoning. You may use drawings, words, and numbers in your explanation. Your answer should be clear enough so that another person could read it and understand your thinking. It is important that you show all of your work.

5. The table below shows the daily attendance at two movie theaters for 5 days and the mean (average) and the median attendance.

	Theater A	Theater B
Day 1	100	72
Day 2	87	97
Day 3	90	70
Day 4	10	71
Day 5	91	100
Mean (average)	75.6	82
Median	90	72

(a) Which statistic, the mean or the median, would you use to describe the typical daily attendance for the 5 days at Theater A? Justify your answer.

(b) Which statistic, the mean or the median, would you use to describe the typical daily attendance for the 5 days at Theater B? Justify your answer.

This question requires you to show your work and explain your reasoning. You may use drawings, words, and numbers in your explanation. Your answer should be clear enough so that another person could read it and understand your thinking. It is important that you show all your work.

6. Describe a procedure for locating the point that is the center of a circular paper disk. Use geometric definitions, properties, or principles to explain why your procedure is correct. Use the disk provided to help you formulate your procedure. You may write on it or fold it in any way that you find helpful, but it will not be collected.

GENERAL BACKGROUND QUESTIONNAIRE

In this section, please tell us about yourself and your family. The section has 15 questions. Mark your answers in your booklet.

1. Are you Hispanic or Latino? Fill in **one or more ovals.**

   Ⓐ No, I am not Hispanic or Latino.

   Ⓑ Yes, I am Mexican, Mexican American, or Chicano.

   Ⓒ Yes, I am Puerto Rican or Puerto Rican American.

   Ⓓ Yes, I am Cuban or Cuban American.

   Ⓔ Yes, I am from some other Hispanic or Latino background.

2. Which of the following best describes you? Fill in **one or more ovals.**

   Ⓐ White

   Ⓑ Black or African American

   Ⓒ Asian

   Ⓓ American Indian or Alaska Native

   Ⓔ Native Hawaiian or other Pacific Islander

3. Does your family get a newspaper at least four times a week?

   Ⓐ Yes

   Ⓑ No

   Ⓒ I don't know

4. Does your family get any magazines regularly?

   Ⓐ Yes

   Ⓑ No

   Ⓒ I don't know

5. About how many books are there in your home?

   Ⓐ Few (0-10)

   Ⓑ Enough to fill one shelf (11-25)

   Ⓒ Enough to fill one bookcase (26-100)

   Ⓓ Enough to fill several bookcases (more than 100)

6. Is there a computer at home that you use?

   Ⓐ Yes

   Ⓑ No

7. Is there an encyclopedia in your home? It could be a set of books, or it could be on the computer.

   Ⓐ Yes

   Ⓑ No

   Ⓒ I don't know

8. Is there a world atlas in your home? It could be a book of maps of the world, or it could be on the computer.

   Ⓐ Yes

   Ⓑ No

   Ⓒ I don't know

9. About how many pages a day do you have to read in school and for homework?

   Ⓐ 5 or fewer

   Ⓑ 6-10

   Ⓒ 11-15

   Ⓓ 16-20

   Ⓔ More than 20

10. How often do you talk about things you have studied in school with someone in your family?

    Ⓐ Never or hardly ever

    Ⓑ Once every few weeks

    Ⓒ About once a week

    Ⓓ Two or three times a week

    Ⓔ Every day

11. On a school day, about how many hours do you usually watch TV or videotapes outside of school?

    Ⓐ None

    Ⓑ 1 hour or less

    Ⓒ 2 or 3 hours

    Ⓓ 4 or 5 hours

    Ⓔ 6 hours or more

12. How many days were you absent from school in the last month?

    (A) None

    (B) 1 or 2 days

    (C) 3 or 4 days

    (D) 5 to 10 days

    (E) More than 10 days

13. How far in school did your mother go?

    (A) She did not finish high school.

    (B) She graduated from high school.

    (C) She had some education after high school.

    (D) She graduated from college.

    (E) I don't know.

14. How far in school did your father go?

    (A) He did not finish high school.

    (B) He graduated from high school.

    (C) He had some education after high school.

    (D) He graduated from college.

    (E) I don't know.

15. How often do people in your home talk to each other in a language other than English?

    (A) Never

    (B) Once in a while

    (C) About half of the time

    (D) All or most of the time

READING BACKGROUND QUESTIONNAIRE

This section is about reading and writing. The section has 10 questions. Mark your answers in your booklet. Fill in only **one** oval for each question.

1. Please indicate how much you DISAGREE or AGREE with the following statements about reading and writing. Fill in **one** oval on each line.

		Strongly Disagree	Disagree	Agree	Strongly Agree
a.	When I read books, I learn a lot.	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b.	Reading is one of my favorite activities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c.	Writing things like stories or letters is one of my favorite activities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ
d.	Writing helps me share my ideas.	Ⓐ	Ⓑ	Ⓒ	Ⓓ

2. How often do you do each of the following? Fill in **one** oval on each line.

		Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day
a.	Read for fun on your own time	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b.	Talk with your friends or family about something you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c.	Write in a private diary or journal on your own time	Ⓐ	Ⓑ	Ⓒ	Ⓓ
d.	Write stories or poems for fun on your own time	Ⓐ	Ⓑ	Ⓒ	Ⓓ
e.	Write e-mails to your friends or family	Ⓐ	Ⓑ	Ⓒ	Ⓓ

3. NOT including reading that you do for school, how often do you spend time reading each of the following types of **fiction?** Fill in **one** oval on each line.

		Never or hardly ever	A few times a year	Once or twice a month	At least once a week
a.	Comic books or joke books	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b.	Fiction books or stories (books or stories about imagined events)	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c.	Plays	Ⓐ	Ⓑ	Ⓒ	Ⓓ
d.	Poems	Ⓐ	Ⓑ	Ⓒ	Ⓓ

4. NOT including reading that you do for school, how often do you spend time reading each of the following types of **non-fiction?** Fill in **one** oval on each line.

		Never or hardly ever	A few times a year	Once or twice a month	At least once a week
a.	Biographies or autobiographies	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b.	Books about science (for example, nature, animals, astronomy)	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c.	Books about technology (for example, machines, computers)	Ⓐ	Ⓑ	Ⓒ	Ⓓ
d.	Books about other countries	Ⓐ	Ⓑ	Ⓒ	Ⓓ
e.	Books about history	Ⓐ	Ⓑ	Ⓒ	Ⓓ
f.	Other non-fiction books	Ⓐ	Ⓑ	Ⓒ	Ⓓ

5. NOT including reading that you do for school, how often do you spend time reading each of the following types of **articles or stories?** Fill in **one** oval on each line.

		Never or hardly ever	A few times a year	Once or twice a month	At least once a week
a.	Articles or stories in a newspaper	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b.	Articles or stories in a magazine	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c.	Articles or stories on the Internet	Ⓐ	Ⓑ	Ⓒ	Ⓓ

6. Now think about reading and writing you do for school. For your **English** class this year, how often do you do each of the following? Fill in **one** oval on each line.

		Never or hardly ever	A few times a year	Once or twice a month	At least once a week
a.	Have a class discussion about something that the whole class has read	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b.	Work in pairs or small groups to talk about something that you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c.	Write in a journal about something that you have read for English class	Ⓐ	Ⓑ	Ⓒ	Ⓓ

7. For your **English** class so far this year, how many times have you done each of the following? Fill in **one** oval on each line.

	Never	Once	2 or 3 times	4 or 5 times	6 or more times
a. Written a report or paper about something that you have read (for example, a book report)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
b. Made a presentation to the class about something that you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
c. Done a project about something that you have read (for example, written a play, created a web site)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ

8. Think about the classes that you are taking this year. How often do you read something that is **NOT** a textbook for each of the following classes? Fill in **one** oval on each line.

	Never or hardly ever	A few times a year	Once or twice a month	At least once a week	I don't take this class
a. English class (for example, plays, fiction books)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
b. Science class (for example, science magazines, biographies of scientists)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
c. Social studies or history class (for example, books about people who lived a long time ago, real letters written a long time ago)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
d. Math class (for example, math word-games)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ

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9. For school this year, how often have you been asked to write long answers to questions on tests or assignments that involved reading?

   Ⓐ Never

   Ⓑ Once or twice this year

   Ⓒ Once or twice a month

   Ⓓ At least once a week

10. When you have reading assignments in school, how often does your teacher do each of the following? Fill in **one** oval on each line.

	Never or hardly ever	**Once or twice a month**	**Once or twice a week**	**Almost every day**
a. Ask you to explain or support your understanding of what you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b. Ask you to discuss different interpretations of what you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ

STOP

MATHEMATICS BACKGROUND QUESTIONNAIRE

This section has 11 questions. Mark your answers in your booklet. Fill in only **one** oval for each question.

1. How much do you agree with each of the following statements? Fill in **one** oval on each line.

	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
a. I like mathematics.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
b. I am good at mathematics.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
c. I understand most of what goes on in mathematics class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
d. There is only one correct way to solve a mathematics problem.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
e. Learning mathematics is mostly memorizing facts.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
f. Mathematics is useful for solving everyday problems.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
g. If I had a choice, I would not study any more mathematics.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
h. All students can do well in mathematics if they try.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ

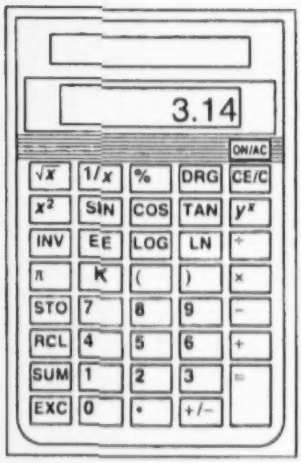
2. Which courses have you taken from eighth grade to present? You should fill in more than one oval in each row if you have taken a course of that description more than once. If you have never taken a particular course, fill in the oval in the column **"Course not taken." Fill in at least one oval in each row.**

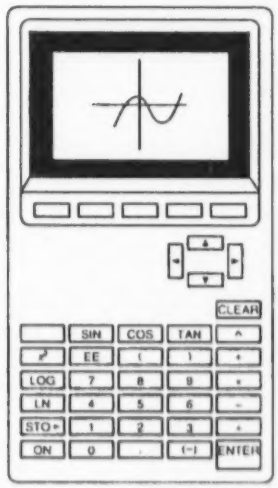
	Course not taken	I took this course in Grade 8	I took this course in Grade 9	I took this course in Grade 10	I took this course in Grade 11	I took this course in Grade 12
a. General mathematics	(A)	(B)	(C)	(D)	(E)	(F)
b. Business or consumer mathematics	(A)	(B)	(C)	(D)	(E)	(F)
c. Applied mathematics or tech prep	(A)	(B)	(C)	(D)	(E)	(F)
d. Introduction to algebra or prealgebra	(A)	(B)	(C)	(D)	(E)	(F)
e. First-year algebra	(A)	(B)	(C)	(D)	(E)	(F)
f. Geometry	(A)	(B)	(C)	(D)	(E)	(F)
g. Second-year algebra, with or without trigonometry included	(A)	(B)	(C)	(D)	(E)	(F)
h. Trigonometry (as a separate course)	(A)	(B)	(C)	(D)	(E)	(F)
i. Precalculus, third-year algebra, elementary functions, or analysis	(A)	(B)	(C)	(D)	(E)	(F)
j. Unified, integrated, or sequential mathematics	(A)	(B)	(C)	(D)	(E)	(F)
k. Probability or statistics	(A)	(B)	(C)	(D)	(E)	(F)
l. Discrete or finite mathematics	(A)	(B)	(C)	(D)	(E)	(F)
m. Calculus	(A)	(B)	(C)	(D)	(E)	(F)
n. Other mathematics course	(A)	(B)	(C)	(D)	(E)	(F)
o. Computer programming	(A)	(B)	(C)	(D)	(E)	(F)

Questions 3–11. If you are not taking math this year, stop here. If you are taking math this year, please complete the remainder of this section.

3. When you do mathematics in school, how often do you do each of the following? Fill in only **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a month	Almost every day
a. Do mathematics problems from textbooks	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b. Solve mathematics problems with a partner or in small groups	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c. Write a few sentences about how you solved a mathematics problem	Ⓐ	Ⓑ	Ⓒ	Ⓓ
d. Talk with other students during class about how you solved mathematics problems	Ⓐ	Ⓑ	Ⓒ	Ⓓ
e. Use a computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ
f. Use a calculator	Ⓐ	Ⓑ	Ⓒ	Ⓓ





4. A calculator like the one shown above is a scientific calculator. It has keys with labels Y^x, LN, π, COS. Do you use a scientific calculator for your mathematics schoolwork?

   (A) Yes

   (B) No

5. A calculator like the one shown above is a graphing calculator. It can draw a graph in the viewing window. Do you use a graphing calculator for your mathematics schoolwork?

   (A) Yes

   (B) No

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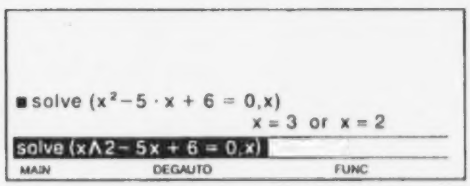

6. A calculator that can do what is shown above is called a symbol manipulator or a computer algebra system. It can work with algebraic expressions directly, and it also has all the functions of graphing calculators. Do you use a symbol manipulator for your mathematics schoolwork?

   Ⓐ Yes

   Ⓑ No

7. For mathematics class, how often do you use a calculator for each of the following activities? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day
a. Classwork	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b. Homework	Ⓐ	Ⓑ	Ⓒ	Ⓓ

8. How often does your teacher let you use a calculator for tests or quizzes?

   (A) Never

   (B) Sometimes

   (C) Always

9. About how much time do you usually spend each **day** on mathematics homework?

   (A) I am not taking mathematics this year.

   (B) None

   (C) 15 minutes

   (D) 30 minutes

   (E) 45 minutes

   (F) One hour

   (G) More than one hour

10. Are you currently enrolled in or have you taken an Advanced Placement course in mathematics? Fill in ovals for all that apply.

    (A) Yes, I am enrolled in or have taken Advanced Placement Calculus AB.

    (B) Yes, I am enrolled in or have taken Advanced Placement Calculus BC.

    (C) Yes, I am enrolled in or have taken Advanced Placement Statistics.

    (D) No, I have never taken an Advanced Placement mathematics course.

11. Are you currently enrolled in or have you taken International Baccalaureate courses in mathematics?

    (A) Yes

    (B) No

National Assessment of Educational Progress
2003 Assessment
Reading and Mathematics

Information About National Assessment of Educational Progress

PROJECT MISSION. NAEP is authorized by Congress and directed and funded by the U.S. Department of Education (National Center for Education Statistics) to report on what American students know and can do in key academic subjects. It has produced more than 600 reports in its 33-year history, chronicling trends over time in the performance of 9-, 13-, and 17-year-old and fourth-, eighth-, and twelfth-grade students. The results are reported in the aggregate for large groups; no student or school data are reported. Information is reported by average proficiency; achievement levels; racial/ethnic and gender status; region; type of school; parents' education level; teachers' emphases; and a variety of school supports for learning. It is important to note that student participation is voluntary and confidential.

THE CONTENT OF NAEP. By law, for each subject assessed, the National Assessment Governing Board (NAGB) manages the development of frameworks detailing what students reasonably might be expected to know and do. These frameworks are the "blueprints" for developing tasks that measure the content specified. Schools selected for the 2003 assessment will receive NAEP's frameworks for reading and mathematics. For information on additional framework development, please contact Mary Crovo of the National Assessment Governing Board at 202–357–6941.

OBTAINING NAEP SAMPLE QUESTIONS. Most NAEP questions and tasks are not generally released to the public, because these materials are reused in future assessments, and thus must be kept secure if the project is to accurately report trends in academic performance. However, about 25 percent of the questions from each assessment are typically designated for public release, and each NAEP report contains a sample of actual test questions. The questions released for public use can be obtained from the National Center for Education Statistics, NAEP Released Exercises, 1990 K Street, NW, Washington, DC 20006. Also, previously released questions may be viewed on and downloaded from the NCES Web site at http://nces.ed.gov/nationsreportcard.

REVIEW OF SECURE NAEP QUESTIONS. Upon written request, adult members of the public may review NAEP questions and instruments, consistent with requirements for test security. These arrangements must be made in advance of the local administration date(s) so that sufficient materials can be available and interested persons can be notified about the location and time of the examination. Those persons reviewing the assessment may not, however, remove the booklets from the room, copy them, or take notes. These requests may be made by contacting the National Center for Education Statistics at 202–502–7420.

FOR FURTHER INFORMATION. For prompt field staff support on the above-mentioned matters, or any other concerns, please call 800–283–6237.

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